Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-07-22** **Date: 24-11-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri P.Ravichandra No 562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-11-2018
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-11-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-07-22** **Date: 24-11-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	-
4	Bulk Density(Loose) (Kg/l)	1.38	-
5	Bulk Density(Compacted) (Kg/l)	1.42	-
6	Water Absorption(%)	0.26	-

Note:

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2019-01-07-22 Date: 24-11-2018
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri P Ravichandra No 562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK DJE-PMT-19/WO 000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-2018
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS 383.2016 (Specification for Coarse and fine Aggregates) IS 2386 .1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-11-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2019-01-07-22
		Date: 24-11-2018
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri P Ravichandra No:562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK DJE-PMT-19/WO/000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-11-2018
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS :83 : 2016 (Specification for Coarse and fine Aggregates) IS :2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-11-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID : CP-2019-01-07-22

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Date: 24-11-2018

Address : Yelahanka Sub Division, BBMP, Bangalore

Project Name : Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division

Agency : Sri P Ravichandra No 562, Down Bazar Street, Yelahanka, Bangalore-560064

Customer's Reference : EE/YNK DE-PMT-19/WO/000083/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-2018

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013 53 Grade Ordinary Portland cement Specification
IS 4031 (Part 1,2,4,5,6):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11 DETERMINATION OF DENSITY , Clause 6

Date of test : 22-11-2018

Environmental Conditions during test : Temperature 26°C
Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.53	-
2	Finess by Air permeablity method (m^2/kg.Min)	287.5	225m^2/kg. Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (i.e Chatelier's Method)	2mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-01-07-22

Date: 20-12-2018

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.P Ravichandra No 562, Down Bazar Street, Yelahanka, Bangalore-560064

Customer's Reference : EE(YNK D)E-PMT-19/WO/000083/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-2018

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013: 53 Grade Ordinary Portland cement Specification.
IS 4031 Part 4: Determination of Consistency of Standard Cement Paste. Clause 5
IS 4031 Part 6: Determination of Compressive Strength. Clause 6

Date of test : 22-11-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-01-07-22**
		Date: 29-11-2018
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri P.Ravichandra No:562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	LI(YNK D)I -PMT-19 WO 000083 2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-2018
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	28-11-2018

Sl No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/12/2018

Lab ID	:	**CP-2019-01-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri P Ravichandra No 562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	LLQYNK DE-PMT-19/WO:000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-2018
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete C15
Date of test	:	11.12.2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/12/2018	11/12/2018	151.44 X 151.01 X 150.08	22868	8.834	432.5	18.9	18.7
2	Drain Bottom Slab Concrete	M20	04/12/2018	11/12/2018	151.24 X 150.34 X 151.75	22738	8.598	428.8	18.9	
3	Drain Bottom Slab Concrete	M20	04/12/2018	11/12/2018	151.28 X 151.28 X 149.72	22886	8.730	420.2	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-01-07-22 Date: 01/01/2019
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri P Ravichandra No 562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	EE/YNK DE-PMT-19/WO/000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-2018
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	01.01.2019

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	150.55 X 150.25 X 150.90	22620	8.201	537.0	23.7	23.4
2	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	149.30 X 151.99 X 151.92	22692	8.347	514.9	22.7	
3	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	150.60 X 149.44 X 151.06	22506	8.626	535.7	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/12/2018

Lab ID	:	**CP-2019-01-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri P Ravichandra No 562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	LE(YNK Dil -PMI-19/WO/000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-1900
Customer ID	:	06-12-2018
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	14.12.2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	43440	M20	04/12/2018	11/12/2018	150.47 X 151.83 X 149.94	22845	8.177	429.3	18.8	18.4
2	43440	M20	04/12/2018	11/12/2018	151.18 X 150.49 X 150.50	22751	8.019	413.8	18.2	
3	43440	M20	04/12/2018	11/12/2018	149.48 X 149.59 X 150.34	22362	8.800	407.8	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-07-22** **Date: 01/01/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri P Ravichandra No 562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK DIE-PMT-19/WO/000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-2018
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	01/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	151.79 X 150.95 X 150.37	22911	8.689	529.2	23.1	22.9
2	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	149.33 X 151.05 X 149.36	22556	8.777	499.9	22.2	
3	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	150.49 X 150.27 X 149.07	22614	8.419	531.6	23.5	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/12/2018

Lab ID	:	**CP-2019-01-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division
Agency	:	Sri P Ravichandra No 562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	LLCYNK Dtl -PMH-19/WO/000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-2018
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/ Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 11.12.2018

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/12/2018	11/12/2018	151.76 X 150.14 X 151.56	22786	8.881	423.5	18.6	18.5
2	Drain Bottom Slab Concrete	M20	04/12/2018	11/12/2018	151.47 X 151.83 X 151.47	22998	8.116	421.3	18.3	
3	Drain Bottom Slab Concrete	M20	04/12/2018	11/12/2018	151.43 X 151.31 X 149.93	22914	8.597	429.0	18.7	

Note:

This results pertain to the samples received and tested

All information furnished by Customer Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/01/2019

Lab ID	:	CP-2019-01-07-22
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division
Agency	:	Sri P.Ravichandra No:562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	LE(YNK DIV-PMI-19/WO/000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-2018
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete C15
Date of test	:	01/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	150.37 X 151.48 X 151.72	22779	8.179	531.4	23.3	22.8
2	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	149.49 X 150.19 X 151.68	22451	8.095	494.1	22.0	
3	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	151.24 X 150.91 X 151.58	22823	8.625	527.6	23.1	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/12/2008

Lab ID	:	**CP-2019-01-07-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.P Ravichandra No:562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK DIV-PMT-19/WO:000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-2018
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	11.12.2008

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/12/2008	11/12/2008	150.75 X 149.42 X 150.03	22525	8.352	413.9	18.4	18.7
2	Drain Bottom Slab Concrete	M20	04/12/2008	11/12/2008	150.58 X 151.11 X 150.10	22755	8.082	427.8	18.8	
3	Drain Bottom Slab Concrete	M20	04/12/2008	11/12/2008	149.83 X 149.80 X 151.49	22445	8.439	424.1	18.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-07-22** **Date: 01/01/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Drains at Nagenahalli Near Govt School and Surrounding Areas in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.P.Ravichandra No.562, Down Bazar Street, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK DIE-PMT-19/WO/000083/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-2018
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 01/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	151.86 X 151.66 X 151.22	23030	8.179	546.2	23.7	23.1
2	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	150.39 X 151.85 X 149.00	22836	8.095	511.1	22.4	
3	Drain Bottom Slab Concrete	M20	04/12/2018	01/01/2019	151.70 X 149.95 X 150.95	22747	8.625	525.0	23.1	

Note:
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Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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